OIPE 0590
0606
6/11/2002

CRF Processing Date: 6/11/2002
Edited by: _____
Verified by: _____ (STIC staff)

Serial Number: 10/016,634A

ENTERED

- [ ] Changed a file from non-ASCII to ASCII

- [ ] Changed the margins in cases where the sequence text was "wrapped" down to the next line.

- [ ] Edited a format error in the Current Application Data section, specifically: _____

- [ ] Edited the Current Application Data section with the actual current number. The number inputted by the applicant was [ ] the prior application data; or [ ] other _____.

- [ ] Added the mandatory heading and subheadings for "Current Application Data".

- [ ] Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

- [ ] Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____

- [ ] Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____

- [ ] Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____

- [ ] Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

- [ ] Inserted colons after headings/subheadings. Headings edited included: _____

- [ ] Deleted extra, invalid, headings used by an applicant, specifically: _____

- [x] Deleted: [x] non-ASCII "garbage" at the beginning/end of files; [ ] secretary initials/filename at end of file; [ ] page numbers throughout text; [ ] other invalid text, such as_____.

- [ ] Inserted mandatory headings, specifically: _____

- [ ] Corrected an obvious error in the response, specifically: _____

- [ ] Edited identifiers where upper case is used but lower case is required, or vice versa.

- [ ] Corrected an error in the Number of Sequences field, specifically: _____

- [ ] A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

- [ ] Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

- [ ] Other:
  _____
  _____
  _____
  _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/016,634A

DATE: 06/11/2002
TIME: 19:51:16

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\06112002\J016634A.raw

```
  3 <110> APPLICANT: Sun, Yongming
  4        Recipon, Herve
  5        Ghosh, Malavika
  6        Liu, Chenghua
  8 <120> TITLE OF INVENTION: Compositions and Methods Relating to Colon Specific Genes
and Proteins
 10 <130> FILE REFERENCE: DEX-0255
 12 <140> CURRENT APPLICATION NUMBER: US 10/016634A
 13 <141> CURRENT FILING DATE: 2001-10-31
 15 <150> PRIOR APPLICATION NUMBER: US 60/244,258
 16 <151> PRIOR FILING DATE: 2000-10-31
 18 <160> NUMBER OF SEQ ID NOS: 176
 20 <170> SOFTWARE: PatentIn version 3.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 108
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
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 30 gaatttacag tttcagtttc caaagaacta tatgaaaaaa ctattata                  108
 33 <210> SEQ ID NO: 2
 34 <211> LENGTH: 295
 35 <212> TYPE: DNA
 36 <213> ORGANISM: Homo sapiens
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 40 <222> LOCATION: (88)..(88)
 41 <223> OTHER INFORMATION: n=a, c, g, or t
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 47 <223> OTHER INFORMATION: n=a, c, g, or t
 50 <220> FEATURE:
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 52 <222> LOCATION: (134)..(134)
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 56 <220> FEATURE:
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 59 <223> OTHER INFORMATION: n=a, c, g, or t
 62 <220> FEATURE:
 63 <221> NAME/KEY: misc_feature
 64 <222> LOCATION: (177)..(177)
 65 <223> OTHER INFORMATION: n=a, c, g, or t
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 69 <221> NAME/KEY: misc_feature
 70 <222> LOCATION: (186)..(186)
 71 <223> OTHER INFORMATION: n=a, c, g, or t
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 75 <221> NAME/KEY: misc_feature
 76 <222> LOCATION: (189)..(189)
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 83 <223> OTHER INFORMATION: n=a, c, g, or t
 86 <220> FEATURE:
 87 <221> NAME/KEY: misc_feature
 88 <222> LOCATION: (197)..(197)
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 92 <220> FEATURE:
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106 <222> LOCATION: (255)..(255)
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111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: (290)..(290)
113 <223> OTHER INFORMATION: n=a, c, g, or t
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119 caattaatga gaaaagaaca ggattganat tagctgtagg atagctcaga ggaaagaaga     120
121 ctcactantt cagnatgtac gagtactagc taaagtaagc agagaagaac ncacttnatc     180
123 ttcttnganc actgngnctt tttactggtc ccttacccct accctgnata gttacattgg     240
125 cctctctngg tggantaatt tcccttaaga aaacagaagc tattttaacn aagcc          295
128 <210> SEQ ID NO: 3
129 <211> LENGTH: 153
130 <212> TYPE: DNA
131 <213> ORGANISM: Homo sapiens
133 <400> SEQUENCE: 3
134 aagaaaatga aaaggcaagt aaaagttggg aaaagtatta ataataaata tgtccagtaa      60
136 aggacttgca tgcaaaacac ataatgaact tctacaataa tagagagaca gacaactcaa     120
138 aaataggcaa aagttttaag tgtacatgaa gcg                                  153
141 <210> SEQ ID NO: 4
142 <211> LENGTH: 236
143 <212> TYPE: DNA
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The left margin markers "W-->" appear next to lines 119, 121, 123, and 125.

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Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\06112002\J016634A.raw

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149 accccttaa tatcactatt tctggcgctt tgattagttg cttgttggaa ttgtcaaaat     120
151 atctaaaaat tttaataaaa tagaacctta aagggagaaa aatcacaccg tgagcccaag    180
153 agaactccaa acactcacca acatggggac caaggcacct gattattatg tattga         236
156 <210> SEQ ID NO: 5
157 <211> LENGTH: 719
158 <212> TYPE: DNA
159 <213> ORGANISM: Homo sapiens
161 <400> SEQUENCE: 5
162 gcaacaacct gagggaactg atttataatc agttgctaag gtggaaaact tgactttaat     60
164 aatgtatatg cagaaagaaa tgctttgctt agttgctttc tgcttatctt taagactttc     120
166 acactcttct tgttttttttg ttgtcattat taatataccg ttttgaaata cagaaggtct    180
168 aaattactaa cactacagat agcagttgtg gcaaataaaa ataagacaga gtgaaactct     240
170 taatcacata gctgttttct gagatttaaa ttgccactgt cactgttgag tctgattta      300
172 aaatggtttc agcagttctc tctacttctc tctttccatc cttgctcttt attaaacagt     360
174 atttgatgcc tataatatga taacccttca acttaatttt tggaagggta cagaacaaat    420
176 gaggaaatct ttgtttgtaa tgtataaccc atttgttacc tgcaactgaa agacaatgaa    480
178 attgattatt atccaggcat gactgtggct tatttaaatc agatactttc tcttttcagc    540
180 tgctgaagat acttgcaatc acctgtggct tttgtattgg tagatacatc caagaaaata    600
182 ttgacttgaa aaaaattgtg cttagagccc tgatctggac attttaaatt cacttaaatt    660
184 gttttaaaaa ttgtgatata ttaatgaaat ttttattttc taactaatta tgaacctttt   719
187 <210> SEQ ID NO: 6
188 <211> LENGTH: 687
189 <212> TYPE: DNA
190 <213> ORGANISM: Homo sapiens
192 <220> FEATURE:
193 <221> NAME/KEY: misc_feature
194 <222> LOCATION: (185)..(331)
195 <223> OTHER INFORMATION: n=a, c, g or t
198 <400> SEQUENCE: 6
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201 acagcccatt ctgcccctct gctgtcctca ccagcctcgt ggagacccaa aatggtcttc    120
203 ttctaggaga ggctagggggg aagggcagag gagctaggtt actagcacag agctcaagcc   180
205 tgatnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     240
207 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     300
209 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nggagatgga gtttataagg cacccagacc    360
211 agtgctggat gtccaactca acttggcaat gacggggggac acatctcctt gtttattttt   420
213 atgtttattt attttttttt aatggagtct tgctctggtt gcactccagc ctgggtgaca   480
215 cgacgtgaga ctctgtctca aaaacagact taaaacccctt taaaagtgtg tgataaacat   540
217 cagcttgaca aatatgaacc cagcacccgt gaagcactgg cactatgctg ggtgctgagg   600
219 gagatggcat gaacagaaaa gagagacaca ggcccaagga gggaagtcca gtgtttggtg   660
221 ggagatgggg atgttaacaa tcacaca                                        687
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225 <211> LENGTH: 475
226 <212> TYPE: DNA
227 <213> ORGANISM: Homo sapiens
229 <400> SEQUENCE: 7
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230 ttttggtgag ccagccagga gtgaagacga caggtttgct gtctcctttg cctgtgggtc      60
232 tggggcccca gcctggggga gacccgtgac tccaggcatg ctatcaggac aacttcaacc     120
234 cgaggggaga tcagctctcc cgcaacctgg tgccgctctc tgacagcaca acagaaccta     180
236 aggggctaca ggatgattca aggaacagtg tgctacagga cctcggtatt cctgctgaga     240
238 gtcatttcct gtgctggatt taccatcaca gggaccagat ttatagaaaa atgaacatgt     300
240 attgttgcta aatggagttg gtcatggagt ggaaactaac aatatgttca cctaaatgtg     360
242 ctacaaccac tcaaggtctg caaacagatt cctatttaga tgttgttgag agctgaattt     420
244 ctggaacaag agatatagat taagactgtt gttacatgtt gcctacatga ctttc          475
247 <210> SEQ ID NO: 8
248 <211> LENGTH: 521
249 <212> TYPE: DNA
250 <213> ORGANISM: Homo sapiens
252 <400> SEQUENCE: 8
253 ttttggtgag ccagccagga gtgaagacga caggtttgct gtctcctttg cctgtgggtc      60
255 tggggcccca gcctggggga gacccgtgac tccaggcatg ctatcaggac aacttcaacc     120
257 cgaggggaga tcagctctcc cgcaacctgg tgccgctctc tgacagcaca acagaaccta     180
259 aggggctaca ggatgattca aggaacagtg tgctacagga cctcggtatt cctgctgaga     240
261 gtcatttcct gtgctggatt taccatcaca gggaccagat ttatagaaaa atgaacatgt     300
263 attgttgcta aatggagttg gtcatggagt ggaaactaac aatatgttca cctaaatgtg     360
265 ctacaaccac tcaaggtctg caaacagatt cctatttaga tgttgttgag agctgaattt     420
267 ctggaacaag agatatagat taagactgtt gttacatgtt gcctacatga cttttcaaaa     480
269 gcttgattcc cagtggcgct ctcaacagca gtcataaaac a                         521
272 <210> SEQ ID NO: 9
273 <211> LENGTH: 743
274 <212> TYPE: DNA
275 <213> ORGANISM: Homo sapiens
277 <400> SEQUENCE: 9
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280 taattacggc tggaaaagat ttaaactatt agaatagaga agactggatt agagaatatt     120
282 aatattctag aaaataacaa gcttatgaca ggaatactat atcagagtca agagaaaaca     180
284 aaagtatagg taaagactga atttatcata gcccaagaca aggagcagga actgacattt     240
286 agtcaacagt atttattgag tccctactat gtgtgccaaa ataaaaaatt aactaagtac     300
288 tgggtaacag ataaagaaat gattatgaaa gctggcaaat aggaagtgag agatgaaact     360
290 aaagatttag ttttacttgc acactgacct tgcaatttcc ccaatgtaat tttgtctgat     420
292 ctgagttgtg gcaagatatc ctgttttttg tacttacagg tattcctgct gagagtcatt     480
294 tcctgtgctg gatttaccat cacagggacc agatttatag aaaaatgaac atgtattgtt     540
296 gctaaatgga gttggtcatg gagtggaaac taacaatatg ttcacctgta agttttttaag    600
298 tgctgtgcca agaaagcctc tttggaggcc attgccataa tctactgttt acatttgtgc     660
300 atttagtttc cgggaaatat tttttaaacc tatcctagga gctattcaga accatagagg     720
302 ctatttcagt tcccctatcg act                                            743
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306 <211> LENGTH: 548
307 <212> TYPE: DNA
308 <213> ORGANISM: Homo sapiens
310 <400> SEQUENCE: 10
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313 ttggtatctg aatgcttcaa gatagccttt tgttcccttc taaaaaagag tgggtagtga     120
315 ttgttaagac ttacccgctc ataaatgttt tattacatac ttaatatgtg aagctatcaa     180
317 gtaaggaggt aaggaagtat gttaataggg aagaagatga taaaataccc aaataggaaa     240
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319 ccataatgcc aactttctaa gcttaagctg actgtaacaa agaactggct ttgtaacaaa      300
321 gaacaagtct tactggcttc atgcaatgca aacatttttt tcttacgtat ctgacagatc      360
323 aaggtggtca ggtagctctc ctgagcagtt ttccaccatg tggtgattca gggatccaag      420
325 cacattctat cacgaggctt agccatattg gagtttttca cttcggtgat gaggatgagg      480
327 gagaaagtgg gagagagtga aaagagggag aaaggtggaa aagggagaaa gaaggagaag      540
329 gtggaaag                                                                548
332 <210> SEQ ID NO: 11
333 <211> LENGTH: 797
334 <212> TYPE: DNA
335 <213> ORGANISM: Homo sapiens
337 <400> SEQUENCE: 11
338 actggcttag cacttacttc ttggtgtgaa gagctagttc ttccctagag agcccaaact       60
340 ctggagccag gtggattgag tgggaatcct agctctgcta aagggacgta cttgcctaag      120
342 tctcctcctc agtaaatagg atactagtga taacatcttc atagagttgt catgagaatt      180
344 aaatgaataa tatatgtaaa ggcttaaatc agcacctgga ctacatatat aaggtgatca      240
346 ataaatatct actttggtat ctgaatgctt caagatagcc ttttgttccc ttctaaaaaa      300
348 gagtgggtag tgattgttaa gacttacccg ctcataaatg ttttattaca tacttaatat      360
350 gtgaagctat caagtaagga ggtaaggaag tatgttaata gggaagaaga tgataaaata      420
352 cccaaatagg aaaccataat gccaactttc taagcttaag ctgactgtaa caaagaactg      480
354 gctttgtaac aaagaacaag tcttactggc ttcatgcaat gcaaacattt ttttcttacg      540
356 tatctgacag atcaaggtgg tcaggtagct ctcctgagca gtttttccacc atgtggtgat      600
358 tcagggatcc aagcacattc tatcacgagg cttagccata ttggagtttt tcacttcggt      660
360 gatgaggatg agggagaaag tgggagagag tgaaaagagg gagaaaggtg gaaaagggag      720
362 aaagaaggag aaggtggaaa ggagagagag agaaattgag aaagtgagaa aaaaaaaaa       780
364 aaaaaacaaa aaaaaa                                                        797
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368 <211> LENGTH: 558
369 <212> TYPE: DNA
370 <213> ORGANISM: Homo sapiens
372 <400> SEQUENCE: 12
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375 tacttacttt agagcttcac ttttatatca tctatatttg acttggaaac catctgtgtt      120
377 tttgtctttg tggtcagcca ttattgtttg ttttgccatg atatatgtcg gaatgatatt      180
379 atttgactct cctttaagta cctcctgctt ctttgagtaa ggagatccta ccagtatcta      240
381 acagaaaatc ttgagcttgc agaataacag aaaagaaaaa aaaaacaaaa acacaacttg      300
383 ccaaaacact gaaactccct ctacttatga aataaacaaa ctggcttaaa ttgggtggaa      360
385 tcattatggc caaatggtgt ttgggcagaa tcaccttgct gaggtcaccg tctgaatttt      420
387 cactgcctgt ttcatcacaa ctcccttca gtttgcccat gacatccatg aggaggcaat      480
389 gagcttgaga gtaacgtttc agtataaaat ggctttctct taaaaacctg atgtcatagt      540
391 atgggctact agcacttc                                                     558
394 <210> SEQ ID NO: 13
395 <211> LENGTH: 596
396 <212> TYPE: DNA
397 <213> ORGANISM: Homo sapiens
399 <400> SEQUENCE: 13
400 aaagatgaca tggattagct tcaagtaaca cataatgtgg ctggagtcag ctgatcttta       60
402 tgctgaaagt gtcaacagta gtgacaaata cttcaagtaa cgggtcaaaa gtctaagaca      120
404 gtcattctgc cagaaatggt ctgggacttc cccatacatg ggacacgtag atcaactttc      180
406 tccaagaacc accaacctgg catgcagtga tgacctctgc agtagacagg gatttaggct      240
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<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:2;  N Pos. 88,128,134,171,177,186,189,195,197,227,248,255,290
Seq#:6;  N Pos. 185,186,187,188,189,190,191,192,193,194,195,196,197,198,199
Seq#:6;  N Pos. 200,201,202,203,204,205,206,207,208,209,210,211,212,213,214
Seq#:6;  N Pos. 215,216,217,218,219,220,221,222,223,224,225,226,227,228,229
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Seq#:6;  N Pos. 320,321,322,323,324,325,326,327,328,329,330,331
Seq#:16; N Pos. 138,145,151
Seq#:17; N Pos. 138,145,151
Seq#:18; N Pos. 292
Seq#:22; N Pos. 9
Seq#:25; N Pos. 5780,5885
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Seq#:30; N Pos. 200,201,202,203,204,205,206,207,208,209,210,211,212,213,214
Seq#:30; N Pos. 215,216,217
Seq#:42; N Pos. 501,514,528
Seq#:46; N Pos. 14,16,18
Seq#:56; N Pos. 64
Seq#:65; N Pos. 58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77
Seq#:65; N Pos. 78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97
Seq#:65; N Pos. 98,99,100,101,102,103,104,105,106,107,108,109,110,111,112
Seq#:65; N Pos. 113,114,115,116,117,118,119,120,121,122,123,124,125,1204
Seq#:65; N Pos. 1206
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Seq#:67; N Pos. 92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108
Seq#:67; N Pos. 109,110,111,112,113,114,115,116,117,118,119,120,121,122,123
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Seq#:67; N Pos. 139
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Seq#:68; N Pos. 255,256,257,258,259,260,261,262,263,264,265,266,267,268,269
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Input Set : A:\PTO.AMC.txt
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Seq#:68;  N Pos.  345,346,347,348,349,350,351,352,353,354
Seq#:71;  N Pos.  957
Seq#:72;  N Pos.  231,239,242,248,259
Seq#:73;  N Pos.  547,555,558,564,575
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Seq#:79;  N Pos.  80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99
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Seq#:83;  N Pos.  418,419,420,421,422,423,424,425,426,427
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Seq#:96;  N Pos.  227,228,229,230,231
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Seq#:117; Xaa Pos. 46
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Seq#:121; Xaa Pos. 70,71,72
Seq#:122; Xaa Pos. 15
Seq#:124; Xaa Pos. 7,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/11/2002
PATENT APPLICATION: US/10/016,634A   TIME: 19:51:17

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Output Set: N:\CRF3\06112002\J016634A.raw

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Seq#:170; Xaa Pos. 3,4,13,16
Seq#:172; Xaa Pos. 28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46
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Seq#:173; Xaa Pos. 14,15,16,17,18,19,20,21
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